

## Hagerty Crystal Clean

Revision: 2014-10-27

Version: 02.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** Hagerty Crystal Clean

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:**

AISE-C7 [3] - Surface cleaners (liquid, powder, gel neat, spray neat) for consumer use

**Uses advised against:** Uses other than those identified are not recommended

#### 1.3 Details of the supplier of the safety data sheet

Hagerty SA

#### Contact details

Promenade-Noire 1, CH-2000 Neuchâtel, Switzerland

Tel +41 32 724 44 64

www.hagertycare.com

#### 1.4 Emergency telephone number

24 hour medical emergency telephone number: + 41 44 251 51 51

Swiss Toxicological Information Centre, Zurich

*This International SDS is for information only. It does not meet all applicable regulatory requirements and does not replace the relevant statutory data sheet for your country.*

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Flam. Liq. 3 (H226)

#### Classification in accordance with Directive 1999/45/EC and corresponding national legislation

**Risk phrases:**

R10 - Flammable.

#### 2.2 Label elements



**Signal word:** Warning

**Hazard statements:**

H226 - Flammable liquid and vapour.

**Precautionary statements:**

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P403 + P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of unused content as chemical waste.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

## Hagerty Crystal Clean

## 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
ethanol	200-578-6	64-17-5	No data available	Flam. Liq. 2 (H225)	F;R11		10-20
propan-2-ol	200-661-7	67-63-0	01-2119457558-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	F;R11 Xi;R36 R67		1-3
ammonia	215-647-6	1336-21-6	01-2119488876-14	Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400)	C;R34 N;R50		0.01-0.1

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

#### Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Inhalation:

No known effects or symptoms in normal use.

#### Skin contact:

No known effects or symptoms in normal use.

#### Eye contact:

No known effects or symptoms in normal use.

#### Ingestion:

No known effects or symptoms in normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Turn off all sources of ignition. Ventilate the area.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

Keep away from flames and hot surfaces. No smoking. Keep away from heat. Take precautionary measures against static discharges.

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**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	EU - Long term value(s)	EU - Short term value(s)	UK - Long term value(s)	UK - Short term value(s)
ethanol			1000 ppm 1920 mg/m <sup>3</sup>	3000 ppm 5760 mg/m <sup>3</sup>
propan-2-ol			400 ppm 999 mg/m <sup>3</sup>	500 ppm 1250 mg/m <sup>3</sup>

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	26
ammonia	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
ethanol	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	888
ammonia	No data available	6.8	No data available	6.8

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
ethanol	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	319
ammonia	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	500
ammonia	36	47.6	14	47.6

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	89
ammonia	No data available	No data available	No data available	No data available

**Environmental exposure**

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)

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ethanol	No data available	No data available	No data available	No data available
propan-2-ol	140.9	140.9	140.9	2251
ammonia	0.0011	0.011	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
ethanol	No data available	No data available	No data available	No data available
propan-2-ol	552	552	28	No data available
ammonia	No data available	No data available	No data available	No data available

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

## Personal protective equipment

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

**Hand protection:** No special requirements under normal use conditions.

**Body protection:** No special requirements under normal use conditions.

**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

## Method / remark

**Physical State:** Liquid

**Colour:** Clear, Colourless

**Odour:** Product specific

**Odour threshold:** Not applicable

**pH:** ≈ 10 (neat)

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
ethanol	78.4	Method not given	
propan-2-ol	82	Method not given	1013
ammonia	28.5	Method not given	

## Method / remark

closed cup

**Flash point (°C):** ≈ 34

**Sustained combustion:** Not determined

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
propan-2-ol	2	13
ammonia	15.4	33.6

## Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
ethanol	5800	Method not given	
propan-2-ol	4200	Method not given	20
ammonia	586500	Method not given	20

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## Method / remark

**Vapour density:** Not determined  
**Relative density:** 0.97 g/cm<sup>3</sup> (20 °C)  
**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
ethanol	No data available		
propan-2-ol	Soluble	Method not given	
ammonia	100 Soluble	Method not given	20

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not determined  
**Viscosity:** Not determined  
**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.  
**Oxidising properties:** Not oxidising

## 9.2 Other information

**Surface tension (N/m):** Not determined  
**Corrosion to metals:** Not corrosive

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

## 10.2 Chemical stability

Stable under normal storage and use conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

## 10.4 Conditions to avoid

Keep in a cool place. Keep container in a well-ventilated place. Keep away from heat and direct sunlight. Take precautionary measures against static discharge.

## 10.5 Incompatible materials

Reacts with acids.

## 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

No data is available on the mixture

Substance data, where relevant and available, are listed below.

## Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
ethanol	LD <sub>50</sub>	5000	Rat	OECD 401 (EU B.1)	
propan-2-ol	LD <sub>50</sub>	3570	Rat	Method not given	
ammonia	LD <sub>50</sub>	350	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
ethanol	LD <sub>50</sub>	> 10000	Rabbit	OECD 402 (EU B.3)	
propan-2-ol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
ammonia		No data available			

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## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC <sub>50</sub>	> 1800	Rat	Non guideline test	4
propan-2-ol	LC <sub>50</sub>	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
ammonia	LC <sub>50</sub>	7.035	Rat	Method not given	0.5

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
ammonia	Corrosive		Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
ammonia	Severe damage		Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
propan-2-ol	No data available			
ammonia	Irritating to respiratory tract		Method not given	

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
ethanol	No data available			
propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
ammonia	Not sensitising		Method not given	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
propan-2-ol	No data available			
ammonia	No data available			

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
ethanol	No data available		No data available	
propan-2-ol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
ammonia	No evidence for mutagenicity		No evidence for mutagenicity	

## Carcinogenicity

Ingredient(s)	Effect
ethanol	No data available
propan-2-ol	No data available
ammonia	No data available

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
ethanol			No data available				
propan-2-ol			No data available				
ammonia			No data available				No evidence for reproductive toxicity

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
ethanol		No data available				

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propan-2-ol		No data available			
ammonia	NOAEL	68		Method not given	

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
ethanol		No data available				
propan-2-ol		No data available				
ammonia		No data available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
ethanol		No data available				
propan-2-ol		No data available				
ammonia		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
ethanol			No data available					
propan-2-ol			No data available					
ammonia			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
propan-2-ol	No data available
ammonia	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
propan-2-ol	No data available
ammonia	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC <sub>50</sub>	8150	<i>Alburnus alburnus</i>	Method not given	96
propan-2-ol	LC <sub>50</sub>	> 100	<i>Pimephales promelas</i>	Method not given	48
ammonia	LC <sub>50</sub>	0.56 - 2.48	<i>Fish</i>	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC <sub>50</sub>	9268 - 14221	<i>Daphnia magna Straus</i>	Method not given	48

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propan-2-ol	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	Method not given	48
ammonia	EC <sub>50</sub>	1.1 - 22.8	<i>Daphnia magna Straus</i>	Method not given	

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC <sub>0</sub>	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
propan-2-ol	EC <sub>50</sub>	> 100	<i>Scenedesmus quadricauda</i>	Method not given	72
ammonia		No data available			

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
ethanol		No data available			
propan-2-ol		No data available			
ammonia		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
ethanol	EC <sub>0</sub>	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
propan-2-ol	EC <sub>50</sub>	> 1000	<i>Activated sludge</i>	Method not given	
ammonia		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
propan-2-ol		No data available				
ammonia		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
propan-2-ol		No data available				
ammonia		No data available				

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available				
propan-2-ol		No data available				
ammonia		No data available				

## Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

## 12.2 Persistence and degradability

## Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

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Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
ethanol					No data available
propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
ammonia					Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	No data available			
propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
ammonia	0.23	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
ethanol	No data available				
propan-2-ol	No data available				
ammonia	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
ethanol	No data available				
propan-2-ol	No data available				Potential for mobility in soil, soluble in water
ammonia	No data available				Low mobility in soil

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

**Waste from residues / unused products:**

**European Waste Catalogue:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.  
20 01 29\* - detergents containing dangerous substances.

**Empty packaging**

**Recommendation:**

**Suitable cleaning agents:**

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

**ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

**14.1 UN number:** 1987

**14.2 UN proper shipping name:**

Alcohols, n.o.s. ( ethanol )

**14.3 Transport hazard class(es):**

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**Class:** 3

**Label(s):** 3

**14.4 Packing group:** III

**14.5 Environmental hazards:**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6 Special precautions for user:** None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** F1

**Tunnel restriction code:** D/E

**Hazard identification number:** 30

**IMO/IMDG**

**EmS:** F-E, S-D

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**MSDS code:** MS1001342

**Version:** 02.0

**Revision:** 2014-10-27

**Reason for revision:**

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 8

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the R, H and EUH phrases mentioned in section 3:**

- H225 - Highly flammable liquid and vapour.
- H314 - Causes severe skin burns and eye damage.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H400 - Very toxic to aquatic life.
- R11 - Highly flammable.
- R34 - Causes burns.
- R36 - Irritating to eyes.
- R50 - Very toxic to aquatic organisms.
- R67 - Vapours may cause drowsiness and dizziness.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**